



DOCKET: CU-3682

PATENT

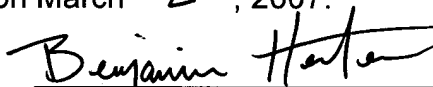
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application: Shunsuke KOBAYASHI et al.] GRP ART UNIT: 1772
Serial No: 10/823,105] Ex.: Hon, Sow Fun
Filed: April 13, 2004]

For: LIQUID CRYSTAL-SOLUBLE PARTICLE, METHOD FOR MANUFACTURING
THE SAME AND LIQUID CRYSTAL DEVICE ELEMENT

Certification under 37 C.F.R. §1.8(a)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with The United States Postal Service with sufficient postage as first class mail in an envelope addressed to The Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on March 2, 2007.

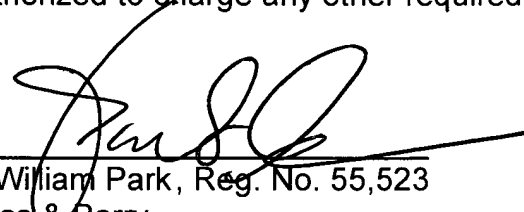

Benjamin Horton

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT BEFORE MAILING
OF A FINAL ACTION OR THE NOTICE OF ALLOWANCE**

The information disclosure statement submitted herewith is being filed before the mailing date of either a final action under §1.113, or a notice of allowance under §1.311, 37 CFR 1.97(c). The Commissioner is authorized to charge \$180.00 to cover the fee set forth in §1.17(p). The Commissioner is also authorized to charge any other required fees to our Deposit Account No. 12-0400.

Date: March 2, 2007


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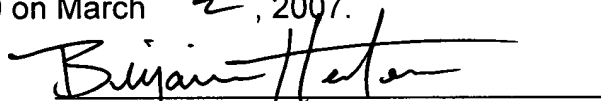
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| | | } | |
| Serial No: | 10/823,105 | } | Ex.: Hon, Sow Fun |
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Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT (IDS)

Applicant submits herewith patents, publications or other information of which the applicant is aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose under 37 CFR 1.56.

No paper copies of the U.S. patent references identified in this IDS, if any, are submitted herewith as they are no longer required by the USPTO rules. Only the copies of foreign patent and/or other relevant publication references are submitted herewith.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

The references submitted herein are listed on PTO-1449 form (modified) enclosed herewith. A copy of each reference listed is being furnished except any duplicate or cumulative patents or publications specified otherwise.

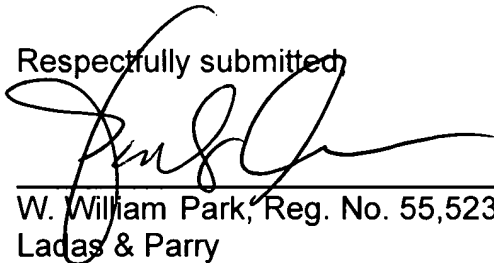
A translation of any foreign language reference, if any, is indicated in PTO-1449 form and being submitted herein if it is readily available. Otherwise it should be construed that such translation is not readily available.

The Statement is made on the basis of the information:

- ☒ supplied by an individual associated with the filing and prosecution of this application (37 CFR 1.56(c));
- ☒ cited in a corresponding PCT, EPO, and/or foreign application, if any.

Date: March 2, 2007

Respectfully submitted,



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Form PTO-1449 (Modified)

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| FORM PTO-1449 | ATTY. DOCKET NO. CU-3682 | SERIAL NO. 10/823,105 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Applicant Shinsuke KOBAYASHI, et al. | |
| (37 CFR 1.98(b)) | FILING DATE April 13, 2004 | GROUP 1772 |

U.S. PATENT OR PUBLISHED U.S. PATENT APPLICATION DOCUMENTS

| EXAMINER INITIAL | PATENT DOCUMENT | ISSUE/PUB DATE | PATENTEE | CLASS | SUB- CLASS | FILING DATE |
|---------------------|--------------------|-------------------|----------|-------|---------------|-------------|
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| EXAMINER INITIAL | DOCUMENT NUMBER | PUBL. DATE | COUNTRY OR PATENT OFFICE | CLASS | SUB- CLASS | TRANSLATION YES NO | |
|---------------------|--------------------|------------|-----------------------------|-------|---------------|-------------------------|--|
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OTHER DOCUMENTS (Including Author, Title, Date, Place of publication)

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| | | Schadt, M., "Low-Frequency Dielectric Relaxations in Nematics and Dual-Frequency Addressing of Field Effects", April 6, 1982, <i>Mol. Cryst. Liq. Cryst.</i> , Vol. 89, pp 77-92. |
| | | Yoshikawa, Hiroaki, et al., "Frequency Modulation Response of a Tunable Birefringent Mode Nematic Liquid Crystal Electrooptic Device Fabricated by Doping Nanoparticles of Pd Covered with Liquid-Crystal Molecules", November 2002, <i>Jpn. J. Appl. Phys.</i> , Vol. 41, pp. L1315-L1317. |
| | | "Shiraishi, Yukihide, et al., "Frequency Modulation Response of a Liquid-Crystal Electro-Optic Device Doped with Nanoparticles", October 2002, <i>Applied Physics Letters</i> , Vol. 81, No. 15, pp. 2845-2847. |
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| Examiner | | DATE CONSIDERED |
| Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | |

(Form PTO-1449)

3-28-07